






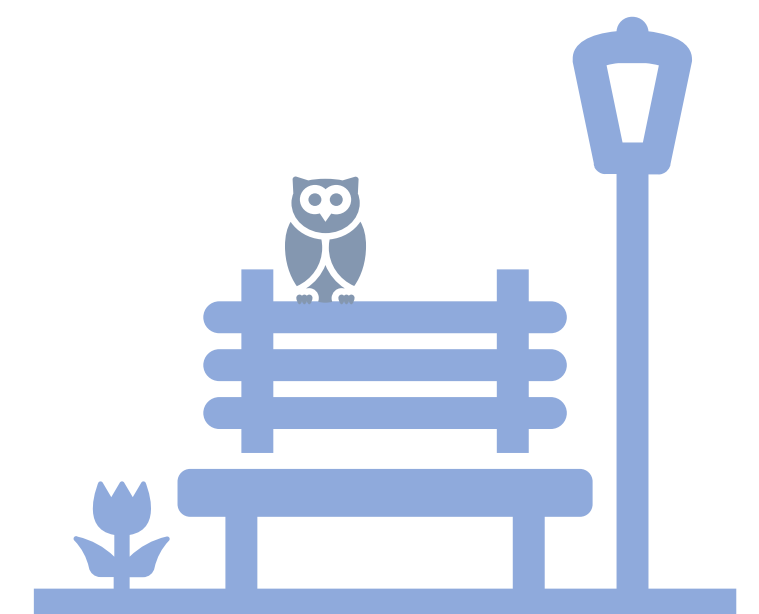
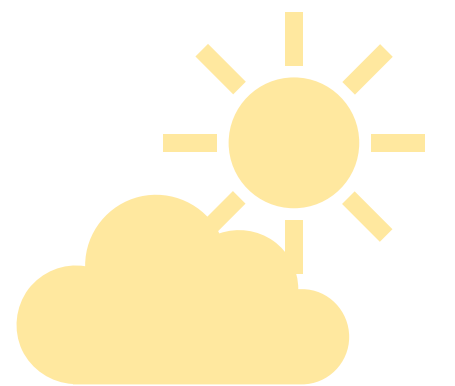
# NETWORK MEDIA

INFORMATION SHEET 2.1-5

# LEARNING OBJECTIVES

After reading this **INFORMATION SHEET**, STUDENT(S) MUST be able to:

-  Describe the primary types and uses of twisted-pair cables
-  Describe the primary types and uses of coaxial cables
-  Describe the primary types and uses of fiber-optic cables
-  Describe the primary types and uses of wireless media
-  Compare and contrast the primary types and uses of different media



# INTRODUCTION

What do you think of when you hear the word “Raceway”? Maybe you think of a race track where competitive speed event takes place, involving cars or horses or video game characters riding go-karts. And there's nothing wrong with that. That is, in fact, a “raceway”.

But, as Wikipedia tells us, raceway can also refer to a “surface mounted wire moulding”. Maybe that doesn't clear it up very much, but basically what it refers to is a channel to run cables through, that mounts on a wall, or a desk, or some other surface, concealing wires or cables so your set-up looks nice and pretty.

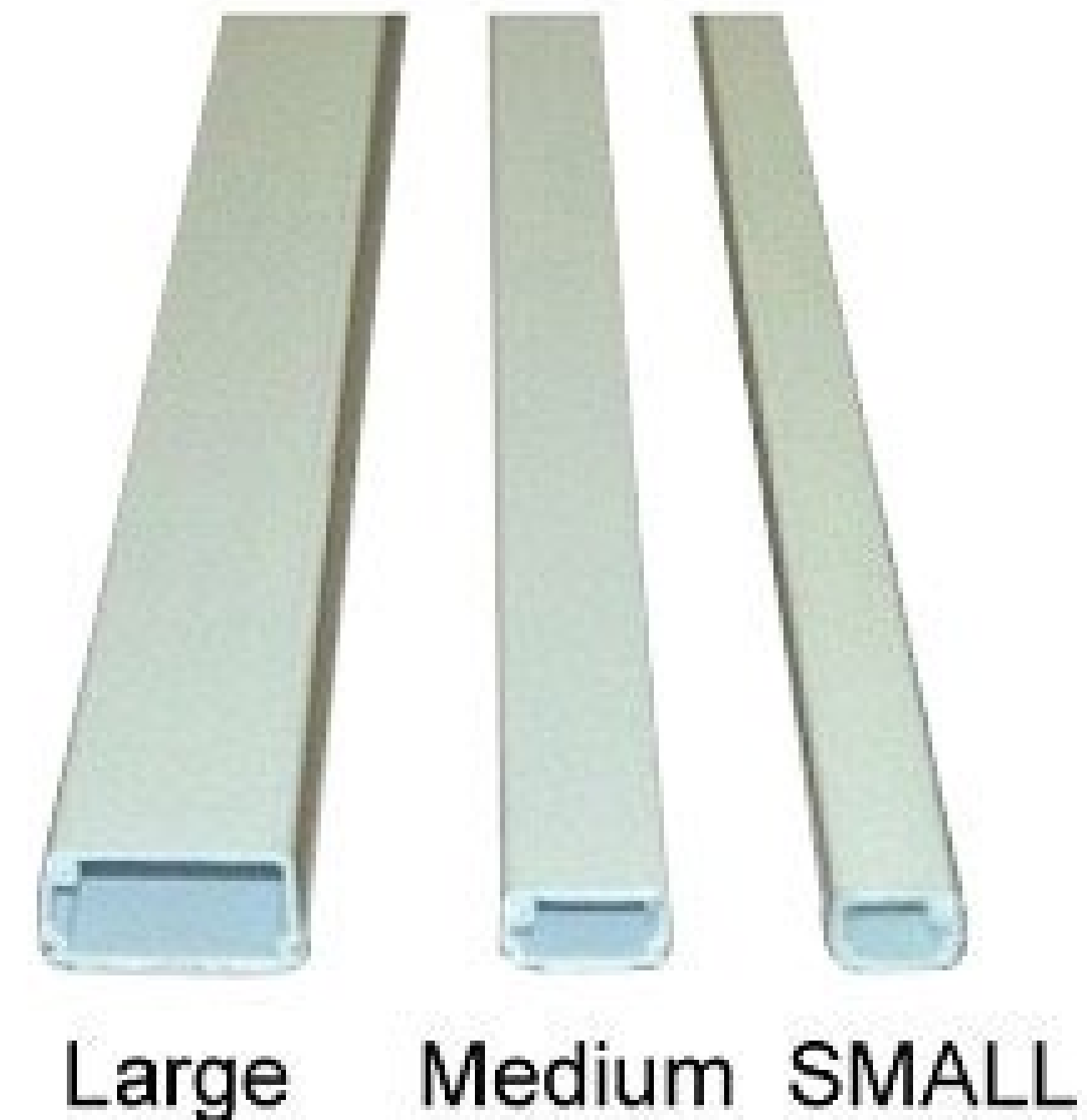
# Raceway

A raceway is a small, enclosed conduit, usually made of plastic, that holds cables inside and is designed to run along walls. Raceways provide better protection than staples or cable ties.



# LATCHING RACEWAY

It is the tried and true, go-to solution for your basic cable management needs. It's typically found in straight sections of various length (though sometimes it's on a roll) and it usually features a hinged latching top. You open the latch, pop some cables inside, and then close it back up, concealing them from view



# CROWN RACEWAY

This Raceway Crown is designed to protect and conceal low voltage wires, cables, data, voice, and fiber optic. It is easily mounted to your wall and ceiling and has plenty of support by optional cable clips or other methods



# CORNER RACEWAY

Probably a better bet. It's a quarter-round shaped wire moulding that blends into the wall/ceiling junctions or baseboards. It's like a crown moulding, but with the added functionality of hiding your unsightly cables.



# WIRE GUARD

It is a line maintenance tool that covers up wiring both indoors and out. Wire Guard products protect outdoor wires from the elements like rain, snow, the sun and even against some impact. Wire Guard interior/exterior cable covers are low cost, light weight plastic moldings, extruded in rigid HIGH-IMPACT Underwriters Labs (UL) compliant PVC.





# CABLE RUNWAY SUPPORT

Cable tray support system's dependability is perfect for low voltage applications such as power and communications cabling.

Its modular design supports an easy-to-install system that protects your cables from damage and reduces the amount of space needed for cable wiring and installation.

Cable Runway Support System

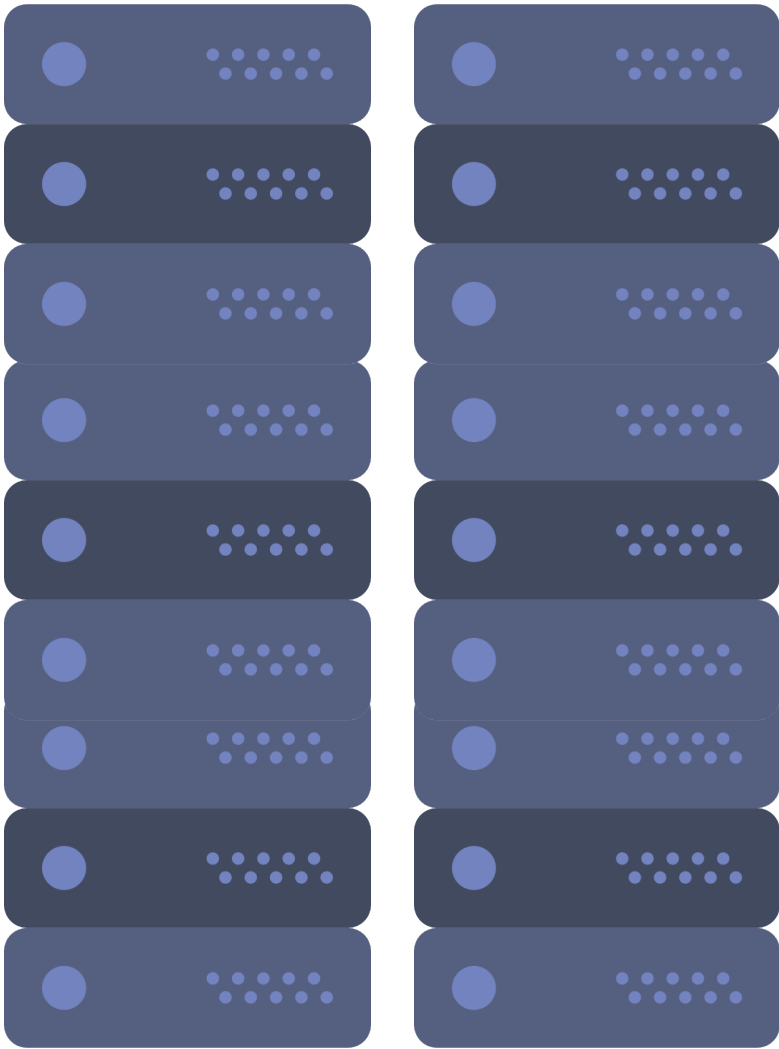


## FIBER RUNNER CABLE ROUTING SYSTEM

This cable tray system for routing fiber optic cabling provides an enclosed, protective raceway specifically designed for the needs of fiber. With a full line of accessories and joints including elbows, cross and tee sections, plus covers and fiber-duct slotted channels, you can create a comprehensive routing system for your fiber installation



Server Room



Sample raceway installation (Color yellow )

# Telecommunication Room

# Work Area



## Entrance Facility

This room is where both public and private network service cables communicate with the outside world.

## Equipment Room

A room with equipment that serves the users inside the building.

## Telecommunications Room

This room contains the telecommunications equipment that connects the backbone and horizontal cabling subsystems.

## Backbone Cabling

A system of cabling that connects the entrance facilities, equipment rooms, and telecommunications rooms.

## Horizontal Cabling

The system of cabling that connects telecommunications rooms to individual outlets or work areas on the floor.

## Work Area Components

These connect end-user equipment to outlets of the horizontal cabling system.



Modular jack



Horizontal cabling

*thank you!*

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